

## ABSTRACT

A sweeping linear magnetron is described. The magnetron has a cathode backing plate, a drive housing attached to the cathode backing plate and a motor held in the drive housing. The motor drives a yoke positioned within a cut-out in the backing plate. The yoke has a magnet pack attached thereto said yoke such that the magnet pack is adapted to being moved over a target material and wherein the target material is being sputtered within a vacuum chamber onto a substrate.